

AUTOMATIC FOCUS DEVICE

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Abstract

PURPOSE:To eliminate the influence of the inherent hysteresis of a capacitor coil, by controlling and letting flow a current of an optimum read value to the capacitor coil of an object lens in a constant direction.
CONSTITUTION:The focus setting of an electron lens is carried out by controlling the current of a lens coil. However, since a magnetic hysteresis exists at an iron core, the magnetization or the focusing force is different and the focus position is also different depending on the direction to magnetize the iron core by the residual magnetism, that is, whether the coil current is increased or decreased, even though the same value of current is let flow to the coil. To eliminate this problem, such a condition is prevented by controlling in a constant direction (from the maximum amount to the direction to decrease the amount, for example) as the control method of the coil current of an object lens 5. In other words, the influence of the magnetic hysteresis is always constant in such a way, and by utilizing this theory, the control of the coil current of the object lens 5 is carried out always from the constant direction.

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